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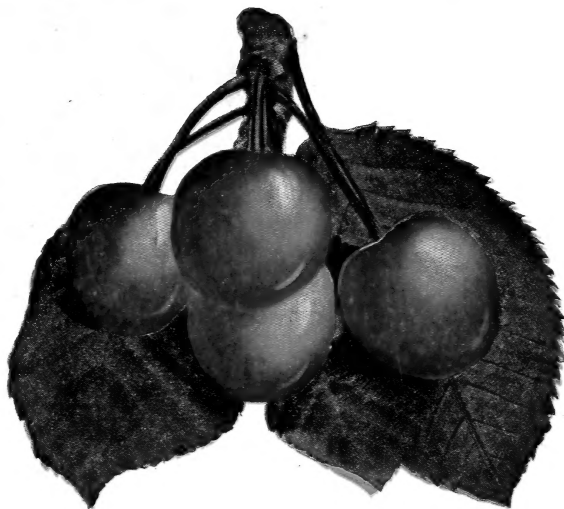
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ANNUAL CATALOGUE

D. A. White & Sons

*Wholesale and Retail
Feedmen and Seedmen*



SALEM THE CHERRY CITY

Spray Material, Poultry and Bee Supplies a Specialty

255 Commercial St. Phone 160
SALEM, OREGON



I N D E X



Garden seeds are arranged in alphabetical order, starting on page 2.

Barrels	34	Lice Killers	28
Bee Supplies	25-26-27	Millet	22
Bird Seed	20	Mole Traps	34
Bone Mill	29	Oats	21
Brooders	30	Onion Sets	13
Buckwheat	21	Plants	19
Cheat Seed	21	Plant Food	24
Chick Feed	27	Potatoes	19-20
Clover Seeds	20	Potash	36
Corn Planters	34	Poultry Supplies	27-28-29-30-31-32
Egg Foods	27-28	Poultry Food	27-28-29-30
Farm and Field Seeds	21-22	Rape Seed	22
Fertilizers	35	Rye	22
Field Peas	21	Seed Sowers	21
Flax Seed	22	Sheep Dip	34
Flower Seeds	22-23-24	So-Ross-So Kilfly	35
Flower Pots and Pans	24	Spray Material	33
Fly Sprays	35	Spray Pumps	33-34
Garden Seed	2-19	Stock Food	34-35
Gopher Guns and Traps	34	Sunflower Seeds	20
Grass Seeds	20-21	Thermometers	29
Grafting Wax	33	Traps	34
Grain Cleaner	Outside Back Cover	Vegetable Plants and Roots	19
Incubators	31-32	Vetches	21
Kow Kure	35	Wheat	21
Kale	22

WE WISH to thank our many friends and customers for their trade and support for the past season. This commences our 19th year here and our sales have shown an increase each year. There must be a reason for this.

If you are one of our customers you know the reason. If not, all that we ask is a trial. We have customers that have traded with us for the entire time we have been in business. If first-class goods and honest and square treatment will develop and hold trade, we believe that we can merit your trade.

Thanking you for past esteemed favors and trusting that we have treated you so that we will merit it the coming year, we are,

Respectfully,

D. A. WHITE & SONS

Important Instructions

How to Send Money. Remittances should be made by Post Office or Express Money Order, Bank Draft or Registered Letter. Postage Stamps will be received for small amounts. Remittance in any other way at sender's risk.

Be Sure to Sign Your Name and give Post Office and State. And to avoid mistakes, do not write letters on same sheet with order.

Seeds Postpaid by Mail. We can send all vegetable and flower seeds in quantities of one pound or less by mail, postpaid, to any office in the United States at the price named in this Catalogue, unless otherwise stated.

Prepay Stations. When you send in orders to go by freight or express, be sure that you add money enough to pay freight charges if your station is a prepay, which is always where there is no regular agent.

Large Orders. Any dealer, market gardener, institution or individual wishing seed in large quantities is requested to mail us a list of what is wanted and we will promptly return it with the very lowest market price. **A letter of inquiry may save you dollars**, if you want to buy in quantity.

White's Selected Vegetable Seeds

TESTED SEEDS

We test all the seeds that we sell for germination and will not send out any that do not show proper strength to grow and thrive, but on account of the difference in planting, weather and care, we will not be held responsible in any way for crop. If the purchaser does not accept the goods on these terms they must be returned at once.



ASPARAGUS



Conover's Colossal. A standard sort, color deep green, quality first class. Pkt. 5c, oz. 10c, lb. 60c.



BEANS



If wanted by mail add 10c per pound. Express or freight are not prepaid by us without you send the money in advance. One pound plants 100 feet of row; 15 to 25 pounds to acre.

Dwarf or Bush Beans---Green Podded

Stringless Green Pod. A very valuable green podded variety, absolutely stringless. Is very early, pods are long, rather round, very fleshy. Fine for the market and home garden. Pound 15c, 10 lbs. \$1.00.

Early Long Yellow Six Weeks. A long podded green variety with medium sized pods; heavy producer. Pound 15c, 10 lbs \$1.00.

Extra Early Refugee. A very early variety with medium sized pods, Fleshy and cooks tender and nice. Pound 15c, 10 lbs. \$1.00.

Extra Early Red Valentine. A popular variety. Erect vine, pods of medium length, fleshy, round, with only slight strings. Pound 15c, 10 lbs. \$1.00.

Dwarf Horticultural. A very vigorous variety; used as a shell bean or as string or dry bean; pods medium length. Pound 15c, 10 lbs. \$1.00.

Castor Beans. Used for medicinal purposes and claimed to keep moles away. Pound 25c,

Wax Podded Bush Beans

Davis White Wax. The most hardy and productive wax podded variety. The pods are long and yellow and while not stringless it is a good bean for the market and home. Pound 15c, 10 lbs. \$1.25.

Golden Wax. One of the most popular garden varieties in cultivation. Pods are long, nearly straight, broad and flat; golden yellow. Pound 15c, 10 lbs. \$1.25.

Challenge Black Wax. One of the standard wax beans, of excellent quality and very prolific. Pound 15c, 10 lbs. \$1.25.

Pole Beans---Green and Wax Podded

Kentucky Wonder or Asparagus. The most popular of the pole varieties for both garden and market. It grows luxuriantly and bears for a long time. Pods are very long, very fleshy and deeply creased; green in color and stringless. Pound 15c, 10 lbs \$1.25.

Cut Short. A popular variety for planting in corn, since the vines

climb the corn without the use of poles; pods short and green. Pound 15c, 10 lbs \$1.00.

Early Golden Cluster Wax. A very popular early and fine variety; pods six to eight inches long, wide and flat, borne in clusters; pods golden yellow; remain in use for a long time. Pound 15c.

Horticultural or Cranberry. An old favorite; pods short, pale green, splashed with red. Used green or dry shelled. Pound 15c, 10 lbs \$1.15.

Lazy Wife. A green podded variety bearing long pods in clusters. Stringless and of fine flavor. Pound 15c, 10 lbs \$1.25.

White Dutch Case Knife. A climbing variety with long flat pods which become creamy white as they mature. Pound 15c, 10 lbs \$1.25.

White Creaseback. An early green podded variety; pods five to six inches long, deeply creased and borne in clusters. Very fleshy and stringless. Beans white and can be used as a dry bean in winter. Pound 15c, 10 lbs \$1.15.

Scarlet Runner. The well known and old fashioned climber. Bright scarlet flowers. Also used as a shell bean. Pound 25c.

Lima Beans

Burpee's Bush. The best dwarf variety. Very prolific; pods and beans large; fine for green shelled. Pound 15c, 10 lbs \$1.25.

Large White. A very good variety of the pole type. Is very prolific and of good quality. Pound 15c, 10 lbs \$1.25.

Field Beans

Oregon Tree Beans. A navy bean that is adapted for this climate. A heavy producer and all ripen at the same time. Pound 15c, 10 lbs \$1.00.

Royal Dwarf Kidney. This bean is large, long and slightly curved. Early and does fine here. Fine flavored. Pound 10c, 10 lbs 85c.

Lady Washington. This small white bush bean is a great improvement over the old navy bean. A very heavy yielder and suitable for the valley. Pound 15c, 10 lbs 85c.

BEETS FOR TABLE AND FARM

Beet Seed. There is no crop where the quality of the seed used is of more importance than this. Our stock is grown by the very best growers and we supply only the choicest strains.

Table Varieties

Early Eclipse. A fine early table variety, globe shaped, flesh deep crimson, zoned with pink. Pkt 5c, oz 10c, qr lb 20c, lb 60c.

Crimson Blood Turnip. A good variety for summer and fall use. ls turnip shaped with bright red flesh showing zones. Pkt 5c, oz 10c, qr lb 20c, lb 60c.

Extra Early Egyptian. A turnip-shaped variety with dark red flesh showing zones of lighter color. Very early and tender. Pkt 5c, oz 10c, qr lb 20c, lb 60c.

Half Long Blood. A half long variety growing about eight inches long. Very rich, deep red flesh of fine color. Pkt 5c, oz 10c, qr lb 20c, lb 60c.

Long Blood Beet. A very desirable sort for light soils where roots are easy to dig. Flesh deep blood red. Pkt 5c, oz 10c, qr lb 20c, lb 60c.



Swiss Chard

Or Sea Kale Beet. Cultivated for its leaves and leaf stalk, which are prepared and served similar to asparagus. Tender and delicious. Pkt 5c, oz 10c, qr lb 20c, lb 60c.

Stock Beets and Mangels

(By mail add 10c per pound)

Mammoth Long Red. Grows to a very large size and makes fine feed, often yielding 40 tons to the acre. Oz 5c, qr lb 10c, lb 25c.

Golden Tankard. A very large mangel growing about half out of the ground. Considered the best for dairy farming. Oz 5c, qr lb 10c, lb 25c.

Yellow Globe. Roots immense size and fine shape. Well adapted to shallow or heavy lands. Oz 5c, qr lb 10c, lb 25c.

Yellow Giant or Gate Post. Roots very large, growing over one-half out of the ground. Flesh white. A heavy producer. Oz 5c, qr lb 10c, lb 25c.

New Mangel Half Sugar. This is one of the finest stock beets on the market and gives fine satisfaction. It is sweeter than the mangels and stock eat it more readily. Roots larger than the sugar beets. Oz 5c, qr lb 10c, lb 25c.

French Sugar Beet. The most popular variety. Flesh white and tender. Fine for table use when young. A great stock feed. Oz 5c, qr lb 10c, lb 25c.



BRUSSELS SPROUTS



Dwarf Improved. A carefully grown strain, very hardy, and giving compact round sprouts of large size and good quality. Pkt 5c, oz 15c, qr lb 40c.



BROCCOLI



Broccoli is very much like cauliflower in general appearance and growth, but is hardier and will stand more cold and frost. Produces fine heads from late in the fall until spring, according to time plants are set out. It is a very profitable crop and is now being planted extensively. Culture same as for Cauliflower.

Large White French. A valuable variety with large white heads, firm and of good flavor. Pkt 5c, oz 35c, 2 oz 60c, 4 oz \$1.00.



COLLARDS



Used as greens. As the leaves are pulled off others grow in their places. Pkt 5c, oz 15c.



CRESS



Curled or Pepper Grass. Used as a salad dressing. Pkt 5c, oz 10c.

Water Cress. To be sown only in water. Pkt 5c, oz 35c.



CHICORY



Large Rooted or Coffee. The best kind. Pkt 5c, oz 10c, lb 75c.

C A B B A G E

CULTURE.—For the earliest supply seed may be sown in September and the plants wintered over in coldframes, or seed started in hotbeds or coldframes early in the spring. For the fall crop seed should be sown early in June and the young plants transplanted to the rows during the latter part of July. In planting be sure to set the young plants down to the first leaves.

One ounce of seed will sow 300 feet of drill; 4 ounces sown thinly should provide plants enough for one acre.

Early Varieties

Early Jersey Wakefield. The favorite early cabbage with market gardeners. Heads are of a good size, solid, a sure header and always gives satisfaction. Pkt 5c, oz 15c, qr lb 50c, lb \$1.75.

Early Drumhead. Heads flattened. A good keeper. Pkt 5c, oz 15c, qr lb 50c, lb \$1.75.

Early York. Small, but very early. Pkt 5c, oz 15c, qr lb 40c, lb \$1.35.

Early Winningstadt. Conical, solid heads, and a fine keeper. Pkt 5c, oz 15c, qr lb 40c, lb \$1.50.

Henderson's Early Summer. The head is round and the largest of the early kinds. Firm and of the best quality. Pkt 5c, oz 15c, qr lb 50c, lb \$1.75.

Early Flat Dutch. Firm, fine grained and tender. Pkt 5c, oz 15c, qr lb 50c, lb \$1.60.

Charleston or Large Wakefield. Larger and a little later than the Jersey Wakefield. Pkt 5c, oz 15c, qr lb 50c, lb \$1.75.



Late Cabbage

Premium Late Flat Dutch. Considered the best late cabbage for all purposes. A sure header. Pkt 5c, oz 15c, qr lb 50c, lb \$1.50.

Premium Late Drumhead. Has no superior for family or market purposes, either for medium early or late purposes. Pkt 5c, oz 15c, qr lb 50c, lb \$1.50.

Hollander, or Danish Ball Head. Head of medium size, round and very solid. The finest cabbage ever sold on the market. Pkt 5c, oz 25c, qr lb 75c, lb \$3.00.

Autumn King, or World Beater. A sure header, very solid, fine grained and tender. Pkt 5c, oz 15c, qr lb 50c, lb \$1.75.

Sure Head. A favorite with many. Certain to head. Pkt 5c, oz 15c, qr lb 50c, lb \$1.75.

Succession, or All Seasons. Heads large, slightly flattened. Pkt 5c, oz 15c, qr lb 50c, lb \$1.75.

Perfection Drumhead Savoy. A variety that is much prized in Europe and also by those who are familiar with it in this country. It is very sweet and crisp and always tender. Heads medium sized and fairly compact. Pkt 5c, oz 20c, qr lb 60c, lb \$2.00.



CAULIFLOWER

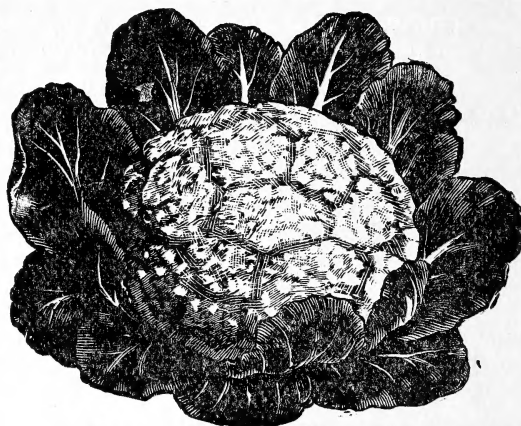


CULTURE.—The cauliflower succeeds well in any soil where cabbage will grow.

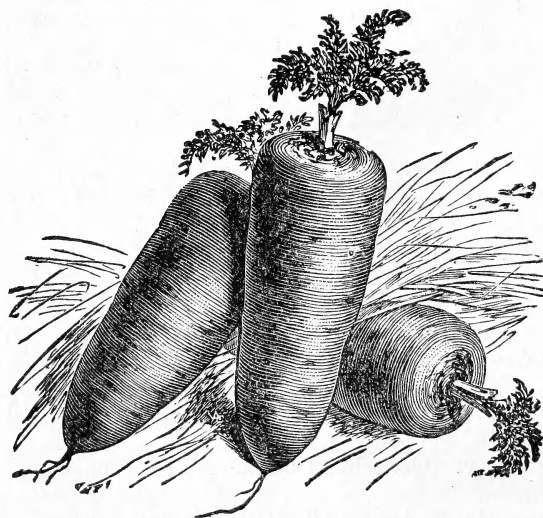
Large Algiers. A valuable late sort, sure to head, of the best quality, and very popular with market gardeners everywhere. One of the very best late varieties. Pkt 5c, oz 80c.

Early Snowball. The best and most popular variety grown. There is a vast difference in the strains of this variety offered, but what we offer is the best imported stock. Those who have had trouble with cauliflower should try this Snowball. It will make uniformly fine heads, even under adverse conditions. Pkts 5c, 10c, 25c, qr oz 75c, oz \$2.50.

Oregon Wonder. A late variety, forming good, large, solid heads during the winter. This variety has given great satisfaction in Oregon where ever tried. Pkt 10c, qr oz 25c, oz 75c.



CARROTS



CULTURE—For early Carrots for table use, sow as early as the ground can be worked; for late crop until the latter part of July; early in August for a winter crop. For the main crop, sow from the middle of May to the first of July. Thin out in the row from 5 to 6 inches apart, with rows 12 to 14 inches apart. Hoe often and deeply between the rows. Light, sandy loam, richly manured, is the best soil.

One ounce will sow about 125 feet of drill; 4 pounds will sow an acre.

If wanted by mail, add 10c per lb.

Earliest Short horn, or French. The earliest variety in cultivation, and best suited for

forcing. Roots, reddish brown, globular and about 2 inches in diameter; should be used before full grown. Pkt 5c, oz 15c, qr lb 35c, lb 90c.

Early Scarlet Horn. The best early kind for general use. It is larger than the forcing variety, but fully as good in quality, and produces a much larger crop. Pkt 5c, oz 10c, qr lb 35c, lb 90c.

Chantenay. The market gardener's favorite. Color, deep orange. Flesh very crisp and tender. Oz 10c, qr lb 20c, lb 65c.

Danver's Half Long. The smooth, handsome roots are orange, of medium length. A very heavy yielder and a fine feed. Oz 5c, qr lb 15c, lb 60c.

Ox Heart. A thick carrot, 5 or 6 inches long and very blunt at lower end. A favorite of market gardeners. Oz 5c, qr lb 15c, lb 60.

Long Orange. One of the best kinds for stock feeding. A heavy yielder. Oz 5c, dr lb 15c, lb 60c.

Large White Belgian. Grown for stock feeding. Very productive. Grows much above the ground. Oz 5c, qr lb 15c, lb 50c.

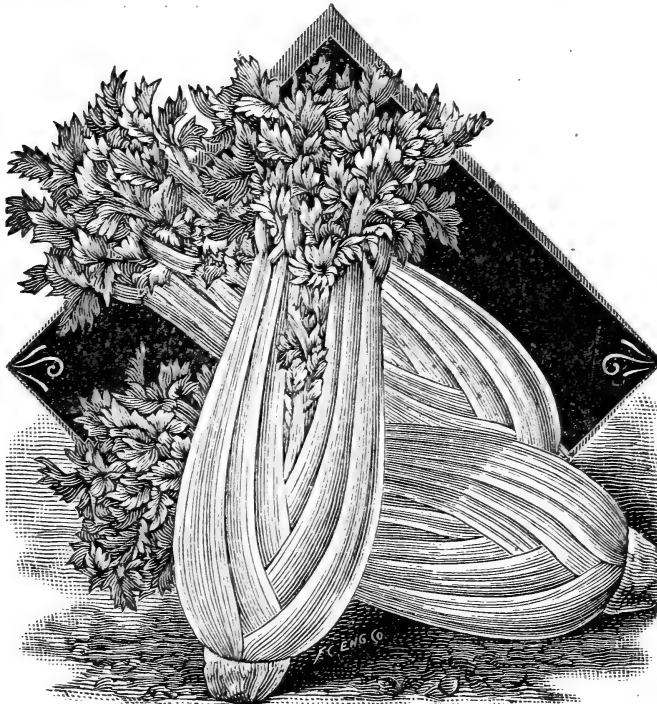
Large White Mastodon. Grows to a large size and makes a fine feed. Produces the largest crop of any carrot. Oz 5c, qr lb 15c, lb 50c.

Yellow Giant. The earliest and most productive stock carrot known. Pkt 5c, oz 10c, lb 75c.

Red Saint Valery, or New Intermediate. A little longer than Danver's, tapering abruptly, with pointed root. A very desirable, long variety, and rather preferable to Long Orange, being thicker at the shoulder and not so long. Color bright orange scarlet. Oz 5c, qr lb 20c, lb 60.



CELERY



CULTURE.—Sow the seed early in a hot-bed or cold frame. As soon as the plants are three inches high, transplant in a prepared border, setting them four inches apart. When grown six inches and fine stocky plants, set in richly manured, deep soil in rows three feet apart, and about nine inches from plant to plant. Water if dry weather follows transplanting. One ounce produces about two thousand plants.

White Plume. The leading white celery. A handsome crisp sort of very easy cultivation. Pkt 5c, oz 15c, lb \$1.75.

Golden Self-Blanching. The best celery for early market use. Easily blanched. Pkt 5c, oz 25c, qr lb 90c.

Winter Queen. This is, without doubt, the most valuable variety of celery for winter and spring use ever introduced. Has double the heart of any known celery. The plant is beautiful in appearance, of close habit and compact growth, and blanches to a beautiful cream white. Ribbs solid, crisp and having a delicious, nutty flavor. Pkt 10c, oz 35c, qr lb \$1.00.

Celeriac, or Turnip Rooted Celery. Pkt 5c, oz 15c, qr lb 40c.



C O R N



For several years we have made a specialty of Selected Seed Corn. This year we offer a better and larger variety than ever before, including several new kinds that will be money makers for the grower that will try them. A few years ago it was said that corn could not be raised here, but as you now travel about the valley you see large fields that yield from 40 to 80 bushels of well matured corn.

If wanted by mail, add 10c per pound.

Sweet or Sugar

Golden Bantam. The sweetest and richest corn ever grown. The most delicious corn ever tasted. Dwarf in growth and can be planted closer than most varieties. Very hardy. Order early as we only have a small amount of this great new corn. Lb 15c.

Peep o' Day. Ten days earlier than any other white sweet corn. Sweet, early and productive. A great corn for this valley. Lb 15c.

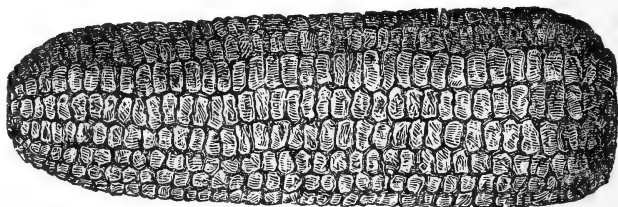
First of All. It matures from three days to a week ahead of the Cory. Very dwarf. Best to seed in drills. Lb 10c.

Mammoth Early Cory. An early kind with a very large ear. Sweet, tender and fine for the market. Lb 10c, 10 lbs 85c.

Early White Cory. An extra white variety with remarkably white grains. Ears of six to seven inches long and of good quality. Lb 10c, 10 lbs 85c.

Early Minnesota. The old favorite. The best early variety for the home garden and the market. Stalks about five feet high; ears long and eight rowed. Lb 10c, 10 lbs 80c.

Early Mammoth.—
A new variety that has made many friends because of the size and flavor of the corn. Very productive. Lb 10c, 10 lbs 85c.



Late Mammoth. A mammoth variety with very long thick ears, which are covered with very wide thick kernels. Lb 10c, 10 lbs 90c.

Black Mexican. Fine, sweet flavor and tender. Lb 15c.

Country Gentlemen. One of the best late varieties. Fine flavored and sweet. Lb 15c.

Stowell's Evergreen, THE MOST POPULAR AND BEST LATE VARIETY. Fine for table use and is used also for fodder for stock and ensilage. The most productive corn grown. Six to eight feet high and remains in condition to use for a long time, Lb 10c, 10 lbs 85c.

White Evergreen. Very similar to Stowell's but has the quality of being snow white. A very fine variety. Lb 10c, 10 lbs 85c.

Early Evergreen. About 10 days earlier than Stowell's and a trifle smaller ear. Of the best quality and fine to plant for a second crop. Lb 10c, 10 lbs 85c.

Field Corn

Oregon Yellow Dent. We make a specialty of Oregon seed corn and have the largest trade in the state. If you want corn that is sure to ripen, plant our acclimated seed. Lb 5c, 10 lbs 40c, 100 lbs \$3.75.

Pride of the North. The best variety for fodder and ensilage. Grows to a good height. Lb 5c, 10 lbs 40c 100 lbs \$3.75.

King of the Earlies. An extra large yellow dent that is suitable for this climate. It is a great producer and is fine for both corn and fodder. It certainly will pay you to try this great new variety. Lb 5c, 10 lbs 40c, 100 lbs \$3.75.

Champion White Pearl. A large, late variety with pearly white kernels. Very popular with dairymen on account of the great amount of feed that it makes. Lb 5c, 10 lbs 40c, 100 lbs \$3.75.

Early White Mastodon. This is a new white corn with large ears and grows to a good size. Has done fine and produced enormous crops wherever grown. Lb 5c, 10 lbs 40c, 100 lbs \$3.75.

Leaming. A very popular, tall growing variety. Is early; stalks are leafy, making fine fodder. Kernels are long and deep golden yellow. Lb 5c, 10 lbs 40c 100 lbs \$3.75.

If you want a Corn that will Ripen Every Year, Try the Flint Corn.

Sanford White Flint. An early tall variety, bearing large ears which are well filled with pure white kernels. Pk 5c, 10 lbs 45c, 100 lbs \$4.25.

King Phillip. An extremely early red corn that does well here. Ears long and well filled. Has been raised here for years. Lb 5c, 10 lbs 45c, 100 lbs \$4.25.

Longfellow. A yellow flint corn that produces a fine, large, long ear. Will ripen any season. Fine for feed. Lb 5c, 10 lbs 45c, 100 lbs \$4.25.

Canada Flint. An eight row, very early corn that does fine here. Fine for chicken feed. Lb 5c, 10 lbs 45c, 100 lbs \$4.25.

Pop Corn

White Rice. The old favorite. Does well here. Lb 10c.

Queen's Golden. A very beautiful new corn that is very productive. Lb 10c.



CUCUMBER



In this latitude it is useless to plant in open ground until nearly the first of May. Make hills two feet in diameter and about six feet apart, and enrich them with well rotted manure. Plant a dozen or more seeds, covering half an inch deep. When all danger from insects is over, pull all but three or four of the strongest plants. One ounce for fifty hills; two pounds per acre when planted in hills. Packet 5c, ounce 10c, pound \$1, except as noted.



Early Short Green, or Early Frame. An excellent sort for both table and pickling. Small and early.

Early Cluster. Very early and productive. Fine for pickling.

Chicago Pickling. The great pickling variety. An old favorite.

Peerless White Spine. The best cucumber for all purposes as it is good for table use and cannot be beat for pickling.

Improved Long Green. The old family favorite. Very productive and a fine cucumber for family and market.

Japanese Climbing. A new variety that climbs a fence or trellis and produces a very large fruit that is of excellent quality. Pkt 5c, oz 10c, lb \$1.25.



ENDIVE



This is a hardy vegetable, cultivated principally for a winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

Green Curled. Standard sort for fall and winter. Pkt 5c, oz 15c, qr lb 40c.

White Curled. A beautiful variety with curled, mossy leaves; for early use. Pkt 5c, oz 15c, qr lb 40c.



EGG PLANT



Early Long Purple. The earliest and hardiest. Pkt 5c, oz 30c.



K A L E



Dwarfed Green Curled. Leaves curled and a bright green. Pkt 5c, oz 10c.

Emerald Isle. Finest Kale in the world. This is really the handsomest Kale that has ever come under our notice, and is entirely distinct from other strains; very hardy, of medium height. The closely curled, handsome leaves are most attractive and of fine flavor. Pkt 5c, oz 15c, qr lb 50c.

Thousand Headed. Grows very large. Used mostly for stock feeding. Pkt 5c, oz 10c, lb 50c. Postpaid.



KOHL RABI



Early White. Best table variety. Pkt 5c, oz 15c.



L E E K



Large Rouen. The favorite variety. Pkt 5c, oz 15c.



M U S T A R D



Southern Giant Curled. Pkt 5c, oz 10c, lb 60.

White English. Leaves mild, tender when young. Pkt 5c, lb 25. If wanted by mail, add 10c per lb.



L E T T U C E



Sow in the open ground as early as possible, barely covering the seed. If the hotbed is used, let it be started quite early. Give but little heat and plenty of water and air on fine days. Let plants in the beds be about four inches apart. As they increase in size thin them out, or they will become weak. One-half ounce will sow 100 feet of drill.

May King. A grand new Butter Lettuce. A large growing, smooth leaved richly flavored sort, which we believe to be the best of all smooth leaved Lettuces. Plant is light green with round leaves which form into a very solid compact, round head; stands a long time without running to seed. Leaves are very thick, folded or puckered at the base, inner ones blanch to a rich golden yellow. Exceedingly rich, tender and buttery. Fine for open ground or forcing. Pkt 5c, oz 10c, lb \$1.

Simpson's Early Curled. A leading market variety. Very tender. Pkt 5c, oz 10c, lb 75c.

Early Prize Head. One of the very best kinds for the garden. A large loose head tender and crisp. Pkt 5c, oz 10c, lb 80c.

Hanson. The leading head variety. Crisp, tender and well flavored. Pkt 5c, oz 10c, lb 80c.

Grand Rapids. The best early kind for forcing. A favorite of gardeners. Pkt 5c, oz 10c, lb 90c.

White Paris Cos. A distinct variety, forming oval upright heads. It is hardy, tender and crisp. Pkt 5c, oz 10c, lb 90c.

Large Drumhead. One of the largest heading kinds, but the heads are not so solid as the Hanson, Pkt 5c, oz 10c, lb 90.

Big Boston. A popular market variety, used largely in the south to grow winter lettuce for Northern markets. A light-green cabbage variety, slightly tinged with brown in the head. Has a particularly fine golden buttery head. Pkt 5c, oz 15c, qr lb 35c, lb \$1.

California Cream Butter, or Royal Summer Cabbage. A very popular variety for autumn and winter use. Forms a very large head, which is very buttery, and of a rich golden yellow inside. The leaves are thick and of bright green, slightly tinged with brown on top of head, and the outer leaves are slightly spotted with inconspicuous brown spots. Easy to grow and a good shipping variety. Pkt 5c, oz 10c, qr lb 35c, lb \$1.

Brown Dutch. Forms a large, solid head, sweet, tender, and of good flavor. Outer leaves tinged with brown. Very hardy. Pkt 5c, oz 10c, lb 90c.

Iceberg. Has an unusually solid head. The white main ribs of the leaves curve toward the centre, which keeps the interior thoroughly bleached. It is quick growing and always crisp and tender whether propagated in early spring or in the hot days of summer. Pkt 5c, oz 10c, qr lb 35c, lb \$1. Postpaid.



MELONS



Muskmelon or Cantaloupe

Plant in rich wet land, using one ounce to 100 hills or two or three pounds to the acre.

Burrell's Gem. A medium sized oval variety deeply netted and having salmon or red flesh. Fine grain and fine flavored. Pkt 5c, oz 10c, lb \$1.

Rocky Ford or Netted Gem. The most largely cultivated variety in use. Fruit is slightly oval, finely netted, and slightly ribbed. Flesh green, thick, very sweet, and of fine flavor. Pkt 5c, oz 10c, lb \$1.

Osage or Miller's Cream. One of the finest flavored melons. The sweetest of all. Rich salmon color. Pkt 5c, oz 10, lb \$1.

Emerald Gem. A salmon fleshed variety of fine flavor and fine quality. Medium sized; globular. Slightly flattened at the ends. Skin only slightly netted; very thick and well ripened close to the rind. Pkt 5c, oz 10c, lb \$1.

Extra Early Hackensack. An early variety with almost globular fruit, which is heavily ribbed and netted. Flesh thick and light green. Pkt 5c, oz 10c, lb \$1.

Large Yellow Cantaloupe. The flesh is light yellowish green, very sweet, crisp and delicious. Pkt 5c, oz 10c, lb \$1.

Small Green Nutmeg. The old favorite. Fine for home or market. Flesh thick and green. Pkt 5c, oz 10c, lb \$1.

Banana. A yellow meated variety. This curious melon grows to a length of 18 to 30 inches. It looks and smells like a banana. The flesh is deep and of fine flavor. Pkt 5c, oz 10c, lb \$1.

Cassaba, True Stock. This is an excellent melon and much sought after. Large, rather oblong, well ribbed; skin thin, netted and of greenish yellow color. Flesh two to three inches thick; delicious and melting. Pkt 5c, oz 10c; lb \$1.25.

Watermelon

If wanted by mail add 10c per pound.

Oregon Queen. It is hardy, early and very productive. Fruit oval, good size. Color dark green. Flesh bright red, crisp, sweet and of splendid quality. You will be pleased with this excellent melon. Pkt 5c, oz 10c, lb \$1.

Kleckley's Sweet or Monte Cristo. A splendid sort for home use or near markets. Vine vigorous and productive; fruit of medium size; oval; color dark, mottled green in two shades, forming indistinct stripes. Flesh a beautiful rich red; exceedingly sweet and tender. Pkt 5c, oz 10c, qr lb 30c, lb \$1.

Fordhook Early. A fine extra early melon. Fruit of good size; skin dark green; flesh bright and crisp, sweet and of good quality; and thin but tough. Good shipper. Oz 5c, lb 60c

Cuban Queen. A very fine variety, growing to a great size; flesh bright red, solid and sweet. The skin is beautifully striped dark and light green. Melons are wonderfully solid; rind thin. They are enormously productive and ripen early. Oz 5c, lb 50c.

Ice Cream or Peerless. A grand favorite and standard variety. Superior in every respect. Has beautiful crimson core, which is always fine grained; cannot be surpassed in flavor; very prolific, magnificent grower. Oz 5c, lb 50c.

Sweetheart. This melon has become very popular as a shipping melon. Vine vigorous and productive, ripening its fruits early. Fruit large, oval, very heavy, uniformly mottled dark and very light green, rind thin, but firm; flesh bright red, firm, solid but very tender, melting and sweet. Fruit retains its good quality for a long time after ripening. Oz 5c, lb 50c.

Phinney's Early. Early, hardy; flesh pink, very sweet, tender and crisp. Lb 50c.

Wonderful McIver or Sugar Melon. The sweetest of all. This widely famous watermelon is, I believe, the sweetest ever put before the people of this country. It is of medium size, with striped or variegated exterior, beautiful red flesh, and light colored or white seeds. The flesh is entirely stringless, and of perfect quality as to texture. The vines are strong, thrifty and prolific and well adapted to withstand either wet weather or drought. Pkt 5c, oz 10c, qr lb 30c, lb \$1.

Halbert Honey. A large, oblong variety of the best quality. Is especially sweet in flavor, crisp and brittle, and well ripened to a very thin rind. Pkt 5c, oz 10c, qr lb 30c, lb \$1.

Cole's Early. A great favorite for a large area of different climates. Fruit medium sized, oblong, striped and mottled. Flesh bright red, solid and of fine, sweet flavor. Oz 5c, qr lb 15, lb 50c.

Ferry's Iceberg. Flesh bright red; rind exceedingly hard and firm, making it a good shipping variety. Skin very dark except where it rests on the ground, where it is a rich yellow. Tender and sweet. Fine for market. Oz 5c, qr lb 15c, lb 60c.

Kolb's Gem. The well known shipping variety. The fruit is large, thick and oval, with flattened end. Flesh bright red. Oz 5c, lb 50c.

Mountain Sweet. A good garden variety and old favorite. Oz 5c, lb 50c.

Hungarian Honey. A very sweet variety and fine for home garden. Oz 5c, lb 60c.

C i t r o n

Red Seeded. Round and handsome; for preserving only. Oz 10c, lb 50c.



ONIONS



Pure seeds. Highest tests. We pride ourselves on selling the very best onion seed that can be produced. Try it.

Oregon Yellow Danver.—

This is the variety planted almost entirely in the Northwest, particularly in Oregon. The bulbs are large of a half globe shape, with small necks. The best keeper and brings the highest prices in both Oregon and California. Our seed is from the best growers in Oregon. Pkt 5c, oz 15c, lb \$1.50.

Yellow Flat Danvers. A well known variety that does fine here. Pkt 5c, oz 10c, lb \$1.25.

Yellow Globe Danvers. A very handsome globe shaped variety of large size with thin yellowish skin white flesh, fine grained, mild, very firm and a good keeper. Pkt 5c, oz 15c, lb \$1.50.

White Portugal or Silverskin

—A good variety for table or market. Skin and flesh pure white; mild flavor and flat shape. The best white onion Pkt 5c, oz 25c, qr lb 65c, lb \$2.25.

Prizetaker. The genuine. The handsomest and largest globe onion. A perfect globe shape, with a bright straw colored skin. The necks are small and the onions always ripen up hard. Pkt 5c, oz 15c, lb \$1.75.

Australian Brown. The skin is thick and the color a dark brown, the longest keeping onion on the market. Pkt 5c, oz 15c, lb \$1.50.

Large Red Weatherfield. A standard variety, one of the most productive kinds, even in poor soil. Pkt 5c, oz 15c, lb \$1.75.



Onion Sets

We make a specialty of onion sets and have the largest trade in the city on same. On account of the market we do not quote prices as the price is subject to changes. Write for prices or send in your order and we will fill it at market price at time order is received.



OKRA OR GUMBO



Long green pods. Pkt 5c, oz 10c.

PARSLEY

Used for flavoring soups, meats and garnishing. Pkt 5c, oz 10c lb 60c.

PARSNIPS

Hollow Crown. Root White, very tender, with smooth, white skin. Pkt 5c, oz 10c, lb 40c.

PUMPKIN

CULTURE—Care should be taken to keep the different varieties apart, and also to keep them well separated from other vining plants, as they readily amalgamate and deteriorate,

Winter Luxury. The best flavored pie pumpkin grown; enormously productive; excellent keeper; medium size; color, golden russet; finely netted; flesh deep golden, sweet, tender and very thick; none better. Pkt 5c, oz 10c, qr lb 25c, lb 75c.

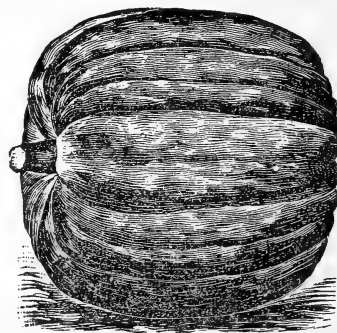
Large Yellow or Connecticut Field.—Large, round; deep, glossy yellow. Vines vigorous and very productive; good keeper. Grown extensively for stock feeding. Oz 5c, qr lb 15c lb 40c.

Mammoth Tours. A productive French variety; grows to an enormous size. Pkt 5c, oz 10c, qr lb 25c. lb 75c.

Giant of All. A new imported variety and a giant among mammoths. This colossal pumpkin is almost a globe in shape. The skin is of a beautiful rich golden yellow, flesh firm, fine grained and deep yellow, sweet flavored, very thick and of excellent quality for so mammoth a variety. These pumpkins attain an enormous size and will carry away prizes at your county fairs. Oz 10c, lb 75c.

Large Sweet Cheese. A popular variety; fruit flattened; skin mottled light green and yellow; flesh, yellow, thick, tender; very nutritious and of excellent quality; a most productive variety. Pkt 5c, oz 10c, qr lb 20c, lb 60c.

Sweet or Sugar. A handsome and productive small Pumpkin, 10 to 12 inches in diameter; round flattened; skin orange; flesh deep yellow, fine grained and very sweet. Pkt 5c, oz 10c, qr lb 25c, lb 75c.



PEPPER

Sow the seed early in hot beds, or later when the weather becomes warm, in open beds. When two or three inches high, transplant to a warm, mellow soil, in rows 18 inches apart and a foot apart in the rows. Guano and hen manure are excellent fertilizers and will greatly increase the yield. Pkt 5c, oz 20c, qr lb 60c.

Ruby King. Very large, sweet and mild; bright scarlet.

Large Bell or Bull Nose. Large, mild, thick fleshed variety; one of the best for stuffed pickles.

Sweet Spanish or Mountain. Of the largest size, bright scarlet; excellent for pickling and stuffing.

Chinese Giant. A very large, deep-red variety, very thick and blunt; it is fully twice as large as Large Bell or Bull Nose, being four or five inches thick at the top and about six inches long. Pkt 10c, oz 40c.



P E A S



If wanted by mail add 10c per lb for postage.

On account of the crop failure peas are higher than for several years and it will pay you to order early as there is not enough on the market to fill orders this season.

Early Varieties

American Wonder. The earliest of the sweet wrinkled sorts; tender and very sweet; a great favorite for family use. Lb 15c, 10 lbs \$1.40.

Premium Gem. One of the finest of the wrinkled peas; extra early and dwarf. Lb 15c, 10 lbs \$1.40.

Gradus. A new variety of excellent quality; pods very large; peas sweet and tender; fine for the market. Lb 15c, 10 lbs, \$1.40.

Nott's Excelsior A fine early dwarf pea; pods are always well filled with sweet, tender peas. Lb 20c, 10 lbs \$1.50.

Alaska. The favorite of the market gardeners; a smooth pea that is extra early. Lb 15c, 10 lbs \$1.40.

Tom Thumb. This is an extra early small, smooth pea; Not as sweet as the wrinkled varieties; only good for an early pea. Lb 15c.

Second Early and Late Varieties

Perfection. The very best medium or late pea in cultivation; pods are large, peas tender and very sweet; produces an abundance of fine peas; best for canning. Lb 15c, 10 lbs \$1.35.

Stratagem. Pods very large filled with peas of the finest quality; a great pea for the market as the large, well-filled pods command the highest price and always sell. Lb 15c, 10 lbs \$1.35.



Dwarf Telephone. The same as the well-known Pole Telephone without its long vines; pods large and filled with plump peas of the sweetest flavor; 10 to 20 inches high. Lb 15c, 10 lbs \$1.40.

Bliss Everbearing. A pea that stands for a long time producing a crop that can be picked along as needed as they do not all ripen at one time; pods are of good size and peas are sweet and tender. Lb 15c, 10 lbs \$1.40.

Pole Varieties

Champion of England. This famous old pea improves with age; there is nothing better on the market today; the pods are large and well-filled with delicious peas; very rich and fine flavored. Lb 15c, 10 lbs \$1.40.

Telephone. This pea is so well known that it is hardly worth while to describe it; pods are extra large and are always well filled with the finest peas that you ever saw or tasted. Lb 15c, 10 lbs \$1.50.

Marrow Fat. This is a smooth pea and cannot be recommended with the wrinkled varieties; it produces an abundance of peas. Lb 10c.

Melting Sugar. The kind that have those sweet, broad pods and are used the same as string beans. Lb 20c.

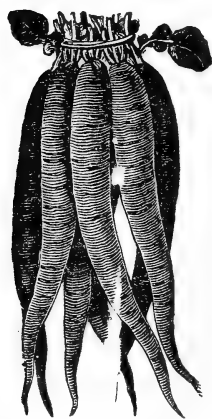


RADISH



Iceicle. A handsome white variety, about five inches long, with sloping top and pointed root; quick growing, brittle and mild in flavor. Pkt 5c, oz 10c, qr lb 25c, lb 60c.

Crimson Giant. A new variety which will be a popular market and home variety, since it matures very early and remains firm and crisp much longer than other short varieties; color, rose carmine with white tip; it is top shaped. Pkt 5c, oz 10c, qr lb 25c, lb 75c.



Scarlet Turnip, White Tipped, or Rosy Gem. One of the most popular and attractive short varieties; it is globe shaped, bright rose carmine, with bottom and tip clear white; stems and leaves small; very valuable for forcing as well as for the house garden and market. Pkt 5c, oz 10c, qr lb 25c, lb 60c.

Early Scarlet Globe. A popular forcing variety owing to its quick growth and fine, scarlet color; shape, a trifle oblong. Pkt 5c, oz 10c, qr lb 25c, lb 60c.

Early Snowball. A very quick-growing, small turnip-shaped variety, color, clear white; very mild flavor, and valuable for forcing. Pkt 5c, oz 10c, qr lb 25c, lb 65c.

French Breakfast. A popular variety for market or forcing; it is about two inches long and decidedly stump rooted; color, bright rose with bottom of root and the tail pure white. Pkt 5c, oz 10c, qr lb 25c, lb 60c.

White Strasburg. A large, white variety for late summer use; rather thick at the shoulder and tapering to about five inches in length; keeps firm and solid a long time. Pkt 5c, oz 10c, qr lb 25c, lb 60c.

White Vienna or Lady Finger. A very fine, long, white variety, quick growing, and ready for use when very young; the flavor is mild and sweet. Pkt 5c, oz 10c, qr lb 25c, lb 60c.

Half Long. The variety most largely used by gardeners in California; it is about three inches long with half stump root and sloping top; color, carmine; quick growing and hardy. Pkt 5c, oz 10c, qr lb 20c, lb 60c.

Long Scarlet Short Top. The best known and most popular long variety; color, bright carmine, and flesh brittle and firm; about six inches long, the top growing out of the ground about one inch. Pkt 5c, oz 10c, qr lb 20c, lb 60c.

Brightest Long Scarlet. A very showy, long variety; it is thick at the shoulder and tapering; bright rose scarlet with distinct white top. Pkt 5c, oz 10c, qr lb 25c, lb 60c.

Chartier. A very long variety and larger in diameter and general size

than Long Scarlet; keeps hard and crisp longer than most varieties, and is an excellent garden sort; color, bright rose with lighter colored tips. Pkt 5c, oz 10c; qr lb 25c, lb 60c.

Winter Radishes

China Rose Winter. Bright rose color, flesh white, firm and of superior quality. Pkt 5c, oz 10c, lb 60c.

Mammoth White China. Roots from 10 to 12 inches long, and are solid, tender and crisp. Pkt 5c, oz 10c, lb 60c.

Long Black Spanish. Flesh white, one of the latest and hardiest. Pkt 5c, oz 10c, lb 60c.



RHUBARB OR PIEPLANT



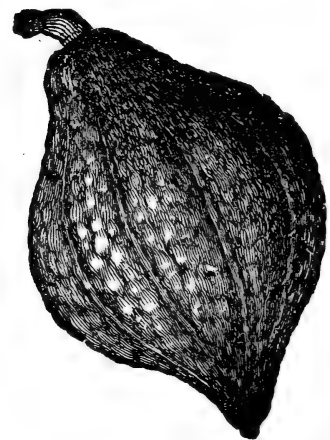
Victoria or Mammoth. Very large, finest cooking variety. Pkt 5c, oz 15c, qr lb 45c, lb \$1.50



SQUASH



Mammoth Summer Crookneck. Flesh tender and of good quality. Pkt 5c, oz 10c, lb 70c.



Mammoth White Bush Scallop. The best summer sort for the market. Pkt 5c, oz 10c, lb 70c.

Hubbard. The best seller and most popular squash; keeps through the winter. Oz 5c, lb 75c.

Mammoth Chili. The largest of all squashes; rich fine-flavored flesh. Oz 10c, lb \$1.00.

Golden Hubbard. The same in size, shape and quality as the well-known Hubbard squash except that it is a bright red and golden color and somewhat earlier; it is also a long keeper, vigorous and wonderfully productive; in flavor it has no equal. Pkt 5c, oz 10c, qr lb 30c, lb \$1.00.

Fordhook. One of the best winter squashes; fine quality. Pkt 5c, oz 10c, lb \$1.00.

Sibley or Pike's Peak. Shell smooth, thin and of a pale green color. Oz 10c, lb 80c.

New Delicious. This new fall and winter squash resembles the old Hubbard, having a dark, olive green, hard shell; average weight is between five and ten pounds; seed cavity small; flesh exceedingly thick, compact, fine grained; color, golden orange; the flesh is meaty, granulated, tender and almost of mealy dryness, cooking sweet and rich whether steamed, baked, boiled or made into pies. Oz 10c, lb \$1.00.

Columbia. This is a very large squash that is used both as a table variety and also, on account of its large size makes fine stock feed. They often weigh from 75 to 90 lbs. Oz 10c; lb \$1.00.



SPINACH



Improved Thick Leaved. Leaves large, thick and of fine flavor when cooked. Oz 5c, lb 25c; postpaid 35c.

Long Standing. The best for general use. Oz 5c, lb 25c; lb postp'd 35c.

SALSIFY OR VEGETABLE OYSTER

Mammoth Sandwich Island. The leading tender variety. Produces a large crop of straight, smooth roots. Pkt 5c, oz 10c, lb \$1.15.

SUNFLOWER

Mammoth Russian. The favorite kind. Lb 10c; postpaid 20c.

TOBACCO

Havana. Best adapted for general use. Pkt 5c, oz 35c.

TOMATOES

Atlantic Prize. The earliest large variety; perhaps the best variety for the valley. Pkt 5c, oz 20c, qr lb 70c.

Early Michigan. A smooth and very early tomato. Pkt 5c, oz 20.

Perfection. One of the best; medium early, round and smooth. Pkt 5c, oz 20c.

Earlina. The earliest large, smooth Tomato; the most perfect of all Tomatoes; of large, uniform size and beautiful red color, Pkt 10c, oz 25c, qr lb 90c.

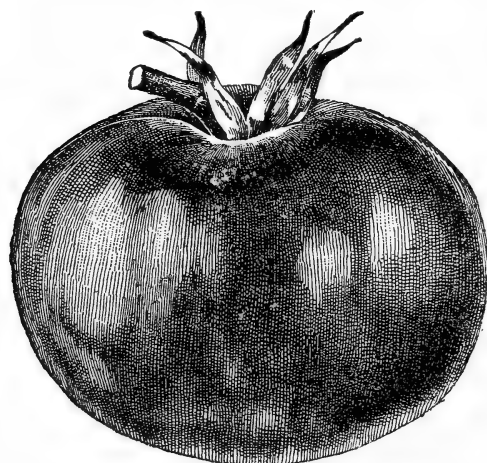
New Stone. The greatest canning Tomato in the world; this variety has obtained great popularity with the canners, growers and market gardeners everywhere. Pkt 5c, oz 20c, qr lb 70c.

Chalk's Early Jewel. A wonderful new variety, in that it is early and bears continuously throughout the season; the fruit is large, smooth uniform and well ripened clear to

the stem, and flavor and quality are especially fine. Color bright scarlet. Pkt 10c, oz 25c, qr lb 75c.

Dwarf Champion. A dwarf variety, sometimes called the tree Tomato on account of its upright growth and its ability to stand alone without trellising; fruit medium sized, smooth, uniform, and of a purplish carmine color. Pkt 5c, oz 25c, qr lb 75c.

Husk Tomato, or Ground Cherry. Used mostly for preserves. Pkt 5c, oz 30c.



TURNIPS

If wanted by mail add 10c per lb for postage.

Early Purple Top. Strap leaved; a leading white fleshed variety, and one of the best for family, market garden or field crop. Oz 5c, qr lb 15c, lb 50c.



White Globe. Large, handsome and of excellent quality. Oz 5c, qr lb 15c, lb 50c.

Early White Flat Dutch. A fine table kind, tender and sweet. Oz 5c, qr lb 15c, lb 50c.

White Egg. Excellent flavor, sweet and mild; favorite for table use. Oz 5c, qr lb 15c, lb 50c.

Orange Jelly. Flesh yellow, sweet and tender. Oz 5c, qr lb 15c, lb 50c.

Yellow Aberdeen. Produces a large crop; a favorite with dairymen. Oz 5c, qr lb 15c, lb 50c.

Cow Corn. A fine stock turnip; an immense yielder. Oz 5c, qr lb 15c, lb 50c.

Extra Early White Milan. A very early variety, medium sized, flat and clear white; a fine home-garden variety. Oz 5c, qr lb 20c, lb 65c.

Rutabagas

Monarch, or Tankard. Flesh yellow, fine grained and a heavy yielder. Oz 5c, qr lb 15c, lb 50c.

American Purple Top. The standard variety; grows to a large size and is an immense yielder. Oz 5c, qr lb 15c, lb 50c.

Sweet Russian. Most excellent for table or stock, sweet and rich. Oz 5c, qr lb 15c, lb 50c.

PLANTS

Cabbage. Early or late kinds per dozen 10c; per 100 50c.

Cauliflower. Early or late kinds per dozen 10c, per 100 50c.

Celery. Leading kinds per dozen 10c, per 100 50c.

Tomatoes. Choice kinds per dozen 15c, per 100 \$1.

Pepper Plants. Per dozen 15c, per 100 \$1.

If wanted by mail add 25c per 100 plants; on tomatoes add 40c per 100.

Asparagus Roots. Good, strong, two-year-old roots, per dozen 15c, per 100 \$1; by mail, 1 dozen 25c, per 100 \$1.50.

POTATOES

On account of the market changes we do not quote prices but will do so at any time on your request.

Early Ohio. This is one of the old standard varieties that is hard to beat. Our stock is choice and prices reasonable.

Early Rose. Does fine in this valley and is a heavy yielder.

American Wonder. A potato for the main crop; one of the best all around white potatoes in cultivation; a strong grower, a great producer and one of the best varieties for general culture; earlier than the Burbank and far outyields it; will be the coming potato for this valley. We advise you to get a start as it is a money-maker.

Burbank. We have in stock good lots of Burbanks for planting and table use at the market price.

Oregon Pride. This is a new large late white potato that we believe will be the coming market and home potato for this valley. It grows to a good size and is the finest cooking and flavored potato that we have seen; it cooks up mealy and cooks quickly. We would advise you to try a few bushels of this great new potato.

Beauty of Hebron. We have a limited stock of this fine early potato; it is one of the finest varieties of the extra early potatoes.



SEEDS—MISCELLANEOUS



Bird Seed

Sunflower per lb 10c
Canary per lb 10c
Hemp per lb 10c

Millet per lb 10c
Rape per lb 10c
Cuttlebone per lb 75c

Grass and Clover Seeds

Grass seed prices are always changing therefore we cannot print prices good for any length of time. When ready to buy write us for special prices; or order what you want at catalogue prices; we will ship seed to cover the full amount of money sent at the market price of that day. If wanted by mail add 10c per pound.

Alfalfa. Alfalfa is past the experiment season, and is a decided success. We handle only the very best quality of seed to be obtained. Sow 20 pounds to the acre. 100 pounds \$19.

Dry Land Alfalfa. This is genuine dry land alfalfa, and has been raised without irrigation, and will usually make a better stand on the hills than the common alfalfa. 100 pounds \$20.

Red Clover. The standard clover for all purposes, for hay, pasture or soiling. We have some very select seed this season. 100 pounds \$15. Sow about 10 to 12 pounds to the acre.

Alsike Clover. A hardy variety which is growing in favor. Makes a fine hay, and is suitable to wet lands not adapted to red clover. 100 pounds, \$17. Sow about 7 pounds to the acre.

White Dutch Clover. A small variety, having a white blossom. Makes a very fine pasture. It is used a great deal for lawns, either alone or mixed with blue grass. For pasture, sow about six pounds to the acre; for lawn, about 20 pounds if alone. Price, pound 25c, 10 lb lots \$2.40.

Timothy. This is the most valuable of all grasses for hay. Sow early in the fall or spring, at the rate of 12 to 15 lbs to the acre. 100 lbs \$7.

Orchard Grass. One of the most valuable of the pasture grasses, either alone or with red clover. Very productive and stands close pasturing. 100 lbs \$17. Sow 15 pounds to the acre.

English Rye Grass. A strong growing, hardy perennial grass, noted for its nutritive qualities. Is equally valuable for hay and pasture, and will succeed on any good, tillable land. 100 pounds, \$8.50. Sow 15 pounds to the acre.

Italian Rye Grass. A quick growing grass, attaining a height of 2½ to 4 feet. Thrives best on soil that is moist, and will stand considerable overflow. Sow 15 to 20 pounds to the acre. 100 pounds \$9.50.

Red Top. Fancy clean seed, a good perennial grass. Sown for pastures. Sow 8 pounds to the acre. 100 pounds, \$17.

Mesquite Seed. A popular pasture grass. May be sown on land that has been burnt over. Sow 15 pounds to the acre. Per pound 8c, 100 pounds in chaff \$7.

Kentucky Blue Grass. Makes a fine pasture. Used largely for lawns, and makes a very fine lawn. Sow for pasture, 15 pounds to the acre; for lawns, 80 pounds to the acre. Per pound, 25c.

Creeping Bent Grass. Used for lawns, Per pound, 30c.

Fancy Lawn Grass Seed

More fine lawns in the city have been made from our mixtures than from any other. We use only the choicest, recleand, heavy grass seeds. This mixture of ours will produce a fine, thick, velvety lawn in a few weeks' time if you prepare the ground properly, and sow the seed thickly. Don't buy cheap seed. It only means a poor lawn. Sow our seed at the rate of 1 to 1½ pounds to 20 feet square; 10 to 15 pounds to the average city lot. Price per pound 25c; postpaid, 35c.

Broadcast Seeders

Calhoun. The most popular machine, strong and well made. Each \$3.25.

Little Giant. Every farmer should have one. The best cheap seeder on the market. made in three sizes.

No. 3 Improved.....	\$2.25
No. 3.....	\$2.00
No. 4.....	1.65

Farm and Field Seeds

All prices quoted are subject to market changes.

We want to call your attention to our line of farm and field seeds.

We believe that you are interested in securing GOOD seeds and CLEAN seeds.

We are making a special effort to please those who are interested in having their grain clean, and keeping their land free from foul weeds. To do this we have, at a considerable outlay, installed a large power grain and seed cleaner. We clean all our seeds and seed grain before offering for sale.

Black Russian Oats. This is the new oat that is bringing such fancy prices on the market. As a producer there is nothing that will show in the same class. The average yield is from 20 to 30 bushels MORE than for any other oat. Bushel 80c.

Seed Wheat. Write for prices and samples, as our stock varies so much that we cannot list each variety.

Seed Oats. We have in stock both the winter and spring oats. Samples and prices on application.

Seed Barley. Have some choice stock that will please you. Market prices.

Seed Vetch. We make a specialty of this crop and can fill your orders. 100 pounds \$4.25.

Field Peas. Field peas are scarce this season, and we would advise you to order early. 100 lbs \$4.50.

Cheet Seed. During the season we carry a large stock of cheet seed at the market price.

Buckwheat (Japanese). The best and most profitable variety. It is earlier than Silverhulled, and usually more productive. Is also excellent for bee pasture. 100 lbs \$4.50.

Buckwheat (Silverhulled). A very good and popular vriety. Grain is of a light color, rounder than the common variety, has much thinner husk, earlier, and yields more. Per lb 5c, 100 lbs \$4.50.

Flaxseed. Recleaned, for planting: Per pound 10c, per 100 lbs \$5.

Dwarf Essex Rape. This great forage plant is becoming more popular every year. Yields an immense amount of green feed; 100 pounds \$8.50.

Seed Rye. A good lot of rye at \$2 per 100 lbs.

Millets. We carry the different varieties suitable to this climate, at the market prices.

Cow Kale (or Thousand Headed Kale). Recommended by agricultural colleges, granges and dairymen who have tested it as one of the most valuable forage plants for this coast. It grows rapidly and produces a mass of thick, curly green leaves, rich and succulent, which are eagerly eaten by sheep, cattle and horses. Especially recommended for green feed during the dry summer months. Sow in drills two or three feet apart, four oz. to the acre and thin out as needed. Makes the most rapid growth if sown early in the spring, but can be sown in summer and fall for winter feed. Will stand light freezing. Stalks can be cut off, or the larger lower leaves broken off, leaving the tops to grow. Per pkt 5c, oz 10c, lb postpaid 50c.



FLOWER SEEDS



Sweet Peas

We believe that we have the finest collection of Sweet Peas ever offered in this city. Many new varieties are listed this season. We have always made a specialty of Sweet Peas and will not handle any but the best grown.

Some Sweet Peas That ARE Up-to-Date

Blanche Burpee. White, a grand flower of beautiful form.

Blanche Ferry. Pink and white, bright rose pink; wings are creamy white.

Mrs. Eckford. Large size; a beautiful shade of light primrose yellow
Lovely. The most beautiful shades of shell pink; large size.

Prima Donna. A most beautiful bright shade of blush pink; finest form.

Royal Rose. Deep rosy pink, with wings of lighter shade; largest size.

King Edward. A favorite; bright scarlet variety.

Queen Alexandra. One of the finest scarlets; of largest size and finest form.

Othello. A rich, dark claret, almost black.

Gorgeous. Deep salmon orange; very brilliant.

Venus. Lovely salmon buff, shaded with rosy pink.

Dorothy Tenant. A rich shade of rosy mauve.

Countess of Radnor. A beautiful shade of light lavender.

Captain of the Blues. The flowers have the appearance of being a true blue.

Navy Blue. Large flowers, deep, glowing violet purple.

Lottie Eckford. White, shaded with lilac, with a deeper border at the edges.

Aurora. Flaked orange-salmon on creamy white ground.

America. Bright red on silvery white ground.

Lady Grisel Hamilton. Soft lavender tinted with mauve.

E. J. Castle. Carmine rose, unwind type, wavy.

PRICES:—All the above varieties, oz 5c, qr lb 15c, lb 50c; postpaid, 60c lb. 1 oz each any six varieties 25c postpaid.

Grand Prize Mixture. Unequaled for size of flowers, beauty and blending of colors; oz 5c, qr lb 15c, lb 40c; lb postpaid 50c.

Choicest Strains Pansies---Finest Varieties

The Pansy is a plant we all delight to grow for a plentiful supply of flowers all the year. For very early outdoor bedding, the seed is sown in the fall, in a cold frame, or in rich moist garden beds. Spring sowing should be made early, so as to secure good flowering during the early rains.

Our strains of Pansy seed cannot be surpassed in color and blooming qualities. The collections offered will give superb flowers in a great variety of beautiful colors.

Large Flowering Popular Sorts.

Coquette de Poissy. Reddish lavender, maroon blotches on lower petals; novel and distinct; pkt 10c.

King of the Blacks. This is an exceptionally fine strain of black; pkt 10c.

Prince Bismark. Brown and golden bronze, remarkably beautiful; pkt 10c.

President Carnot. The ground color is white and each petal is almost covered with a deep, rich, velvety blotch of dark violet blue, leaving a broad, white margin; pkt 10c.

Queen of the Blues. Flowers large, azure blue; pkt 10c.

Snow Queen. Very large, satiny white; pkt 10c.

Victoria. The blooms are of good substance and form, and deep claret red color; pkt 10c.

Yellow Gem. A lovely, rich, pure yellow; pkt 10c.

Trimardeau Giants.

Of remarkably large size and robust growth; very fine.

Giant. White, yellow, striped, black, blue, or mixed; pkt 10c.

Special. One packet of each of the six kinds, 50c.

English Show Extra Mixed. An extraordinarily fine mixture, all colors; pkt 10c.

Fine Mixed. A fine assortment of colors, pkt 5c.

Asters

Popular and well known. As a fall blooming annual it has no superior; produces a profusion of flowers of a great variety of rich colors and shades; of varied and beautiful form. The late flowers are usually the best, and to sustain the plant it should have rich soil and abundant moisture. Half hardy Annual.

Chrysanthemum Flowered. Half dwarf; of compact growth; flowers large, abundant and later than many sorts; white, scarlet, lilac, rose, or mixed; pkt 10c.

Giant Comet. One of the handsomest of the tall growing sorts; flowers large and beautiful; petals long and twisted; rose, crimson, light blue, white or mixed; pkt 10c.

Hohenzollern. New class, with very large handsome flowers; branching comet types; mixed; pkt 10c.

German Quilled. The well known, common, double, quilled Aster; mixed, all colors; pkt 5c.

Semple's Late Branching. A magnificent strain; flowers large, beautiful, double, and borne on long stems, white, rose, crimson, blue, or mixed; pkt 10c.

Truffant's Paeony Perfection. Very popular; flowers large, double, beautiful; petals curve inward; white, rose, crimson, blue or mixed. Pkt 10c.

American. Late branching type; long petaled flowers, feathery in aspect; very desirable; mixed; pkt 10c.

Improved Victoria. Flowers large, beautifully imbricated and perfect in form; crimson, rose, white, light blue, mixed; pkt 10c.

C a r n a t i o n s

Universally admired, deliciously fragrant, unsurpassed for richness and delicacy of form and color.

Extra Choice Double Mixed. Pkt 20c.

Fine Double Mixed. Pkt 10c.

Margaret, Mixed. Pkt 10c.

Margaret, Double White, Red or Rose. Pkt 10c.

Margaret, Double Yellow. Pkt 25c.

M o r n i n g G l o r i e s

The tall varieties are popular, well known, rapid-growing climbers of the easiest cultivation. Very fine for covering arbors, trellises, porches, etc. The minor or dwarf varieties flower very freely and do not require support.

Convolvulus Major. Tall, choice, single mixed; all colors; pkt 5c, oz 15c.

Convolvulus Minor. Dwarf mixed; pkt 5c.

Double Mixed Tall. Pkt 5c.

Imperial Japanese Fringed. These have very large fringed flowers in a great variety of the most exquisite colorings; handsome, variegated foliage; mixed; pkt 10c, oz 25.

Japanese Double Mixed. This double mixed Japanese sort is very fine in leaf, flower and growth; pkt 10c, qr oz 50c.

Japanese Single Mixed. Pkt 5c, oz 20c.

N a s t u r t i u m --- T a l l V a r i e t i e s

Lobbianum. Choicest mixed; the very finest flowering kinds, having a richness of color and a variety of brilliant shades and markings hitherto unknown; pkt 5c, oz 10c qr lb 35c lb \$1.25.

Pearl. Cream white; pkt 5c.

Lilli Schmidt. Orange scarlet; pkt 5c.

Golden Queen. Pure yellow; pkt 5c.

Dwarf Mixed. The finest varieties, pkt 5, oz 10c, qr lb, 30c, lb \$1.25.

F o o d f o r F l o w e r s

This plant fertilizer is made for house plants and flower beds, and is odorless and easy to use; 25c a packet.

F l o w e r P o t s , F e r n a n d B u l b P a n s , S a u c e r s

Hanging Baskets. These are well made, having scalloped edge and fancy designs on the lower outside. Better than wire baskets, as plants do not dry out so quickly. 8-in. each 30c; 10-in. each 40c; 12-in. each 60c.

F l o w e r o r A z a l i a P o t s o r B u l b P a n s (A l l S a m e P r i c e) .

			Saucers					Saucers	
Size	Each	Doz.	Each	Size	Each	Doz.	Each	Size	Each
2 inch.....	\$0.02	\$0.20	\$.....	8 inch.....	\$0.15	\$1.75	\$0.10		
3 inch.....	0.03	0.25		9 inch.....	0.25	2.50	0.15		
4 inch.....	0.04	0.40	0.02½	10 inch.....	0.40		0.20		
5 inch.....	0.06	0.60	0.04	12 inch.....	0.60		0.35		
6 inch.....	0.10	0.90	0.05	14 inch.....	1.40		1.00		
7 inch.....	0.12	1.20	0.07½	16 inch.....	2.25		1.25		

NOTE—At above prices we will pack the pots carefully, but buyer must pay freight or express.

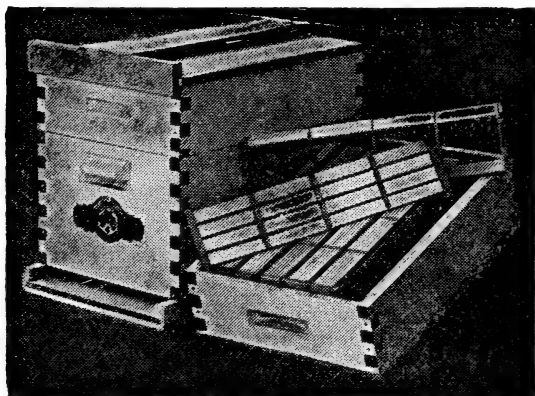


BEE SUPPLIES



Description and Prices. Order by numbers. Five hives same rate as ten.

Dove Tailed Pine Hives. No. 1. Dove Tailed Hive, complete with one super. Consists of one bottom board, one body, one super, one cover, eight Hoffman brood frames, one division board, six section holders, 24 sections and foundations started for frames, and sections and nails.



Nailed, \$2.00 each, per 10, K. D., flat, \$18.00.

No. 2. Hive is the same as No. 1, less sections and foundation starters.

Nailed, \$1.80 each; per K. D., flat, \$16.00.

Western Cedar Hives No.

1. Same description as pine hives, nailed, \$2.00 each; per 10, K. D., flat, \$18.50.

No. 2. Hive is the same as No. 1, less sections and foundation starters. Nailed \$1.80 each; per 10, K. D., flat, \$17.00.

Dove Tailed Supers. No.

1. Pine or cedar, complete, with sections and foundation starters, nailed, each 90c; per 10, K. D., flat, \$8.00.

No. 2. Pine or cedar, less sections and starters, nailed, each 70c; per 10, K. D., flat, \$6.00.

No. 0. Empty, pine or cedar, nailed, 40c; per 10, K. D., flat, \$3.50.

Section Honey Boxes

Our No. 1 sections are made of the choicest white basswood lumber, and are perfect in finish, and free from defects. They are not all snow white, but vary from that to a light cream color. Choice honey shows off to best advantage in a section not too white, as it is the honey rather than the wood that the consumer looks at. Price: Per 100, 70c; 500, \$3; 1000 \$5.90.

Our No. 2 sections selected from our best grade sell at a price considerably less than our No. 1, and are correspondingly lower in quality. Most of them are equal to No. 1 except in color, some have dark spots, saw marks, or other blemishes which exclude them from No. 1 grade. Price: Per 100, 65c; 500 \$2.85; 1000, \$5.50.

Section Holders

Six section holders, with separators, one follower and wedge, are put in each super, and each holder holds four one-pound honey boxes. The bottom strip is $1\frac{1}{4}$ inch thick, and is cut out to fit insets of sections. $1\frac{1}{8} \times 18\frac{1}{4}$ inches, slotted, per 100, \$2.40. Bottoms only— $1\frac{1}{8}$ inches wide—slotted, per 100, \$1.25.

Comb Foundation

Packed in 1, 2, 3 and 5 pound paper boxes, or 25 pounds in a case.

Grade	Square ft. per lb.	lb.
Light standard brood.....	6 to 7	65c
Light section.....	11 to 12	70c

If foundation is wanted by mail, add 25c per pound up to two pounds, and 20c per pound over two pounds.

Hoffman Brood Frames

The Hoffman Improved Foundation Fastening Frames are the latest and best brood frames out. the top bar is made with a beveled strip which holds the foundation absolutely in place, perfectly straight and exactly in centre of top bar. Any one can put foundations in these new frames very rapidly. Price Hoffman Frames per 10 35c, 100 \$3.

Hive Parts

Division Boards.....	each 10c, ten 90c.
Followers and Wedge.....	each 5c, ten 35c
Tightening Spring.....	each 1c, ten 8c.

Separators

One separator should always be placed between each section holder so that the bees will build the honey comb even in each section. Slotted Wood Separators, 4 1-2 x 18, per 100 75c.

Bee Veils

Hat Veils. These veils have a rubber band around the top so as to fit the hat snugly. The lower end is bound, to prevent fraying. The kinds of material are given below. Price List (Postpaid).

No. 2 Veil, cotton tulle with silk tulle face.....	\$0.55
No. 3 Veil, cotton tulle throughout.....	.40
Globe Veils, each.....	1.00

Gloves, Rubber

Rubber Gloves for the protection of the hands and wrists are almost indispensable in handling bees.

Ladies' sizes 7, 8 and 9. Price \$1.20; by mail \$1.30.

Gents' sizes 10, 11 and 12. Price \$1.25; by mail \$1.35.

Men's half long, sizes 13, 14 and 15. Price \$1.50; by mail \$1.60.

Men's half long, heavy, sizes 13, 14 and 15. Price \$1.75; by mail \$1.85.

NOTE—To insure getting proper size, mark outline of hand on paper. If you order by number, order two sizes larger than you require in kid.

Bee Brushes

Cogshall's. For the wholesale brushing of bees off combs when extracting, we do not hesitate to pronounce this the best. Price 20c; by mail 25c.

Bee Entrance Guards

Root's or Tinker's. These are to admit workers and exclude drones. After the drones are all out, fix the guards over the entrance, and at night the drones can be destroyed. Price 10c; by mail 15c.

Tinned Wire

No. 30. Per spool 10c, postpaid.

Bee Smokers

Clark's Cold Blast. Probably the most popular smoker in use today is the Cold Blast, although many are now changing to the hot blast, claiming that they are more effective. The Clark is the best low-priced smoker. Price 60c; by mail 75c.

Improved Cornell. It is neat in appearance and does not topple over easy. Makes a good strong blast, with little work. Very substantial. Price, Standard size $3\frac{1}{4}$ inch \$1, by mail \$1.25. Junior $2\frac{1}{2}$ in. 90c, by mail \$1.10

Bingham. This is strong and well made, does not clog up, and burns any fuel. It has recently been improved by the addition of a curved spout to prevent fire dropping, and a safety attachment prevents burning the fingers in removing the hot cone for replenishing. The four larger sizes have wide shields and two smaller have narrow shields. All have wire handle to cone, and inverted bellows. The "Conqueror" and "Doctor" cannot be excelled for use in large apiaries.

		Postp'd
Bingham, Conqueror	\$1.00	\$1.25
Bingham, Little Wonder60	.75
Bingham Doctor	1.25	1.55
Bingham, Large90	1.10

A B C Bee Culture. For the veteran as well as the beginner. While the book is in a true sense an A B C of Bee Culture, in that it is adapted to the requirements of the beginners, no veteran, no matter how extensive his experience, can afford to be without a work of this kind, containing as it does a carefully prepared treatise on every late method of practice known to the business; 500 pages. C \$1.35.

Other Bee Supplies

We handle a great many supplies not listed here but will be glad to quote you prices at any time. Send us a list of what you want.



POULTRY SUPPLIES



F o o d s

Granulated Bone. Bone is an indispensable food for poultry and should be kept before them. Our bone is made from fresh green bones, from which the moisture and grease have been taken, leaving nothing but the phosphates, lime and protein. These are the only food values of bone, green or dry. Ten pounds 25c, 100 pounds \$2.25.

Grit. Every poultry raiser should keep a supply of this grit in each pen. All fowls must have sharp, hard grit of some kind with which to grind their food after it passes into the gizzard, otherwise they will not do well. Crystal grit; 10 lbs 20c 100 lbs \$1.35. Mica grit, 10 lbs, 20c; 100 lbs \$1.25.

Oyster Shell, Crushed. We offer nice clean shell, free from dust and waste. These should be within reach of your hens at all times. Eastern, 10 lbs 20c, 100 lbs \$1.50. Western, 10 lbs 20c, 100 lbs \$1.25.

Meat Meal. A highly concentrated food. It is cooked meat, dried and ground. Very rich in protein. Mix with soft food, Unexcelled for egg production. Fancy grade 10 lbs 40c, 100 lbs \$3.50. Standard, 10 lbs 35c, 100 lbs \$2.50.

Blood Meal. A very highly concentrated egg producer; the best on the market. To be fed in ground feed. 1 lb 10c, 10 lbs 60c, 100 lbs \$4.

Charcoal. Our charcoal is made from the best willow. Keep your chickens healthy by using it. 1 lb 10c, 10 lbs 50c.

Beef Scraps. This is one of the most valuable foods on the market to bring results. Is a great egg producer, and also makes the chicks grow better than any other food. Our beef scraps is of the best selected quality. 10 lbs 50c, 25 lbs \$1, 100 lbs \$4.

Alfalfa Meal. Takes the place of green feed. Fine for laying hens. You will find that it pays to mix this with your mash. 10 lbs 20c, 60 lbs 80c.

Chick Feed. Our chick feed is a perfectly balanced ration for the young chicks; keeps them healthy and promotes their growth. We have sold a car load of this feed alone this season; certainly must be good. 10 lbs 35c; 100 lbs \$3.00.

Egg Food. A mixture containing all the principal foods to make a hen lay. To be fed as a hot mash. A great egg producer. 10 lbs 35c, 50 lbs \$1.35

Grain for Feed. We handle all kinds of grain, wheat, oats, barley, corn, either whole, rolled or cracked as wanted. You will find our prices the lowest in the city, quality considered.

T o n i c s

Prussian Poultry Tonic. Makes hens lay, makes them pay also. An excellent remedy for cholera and disease. 25c and 50c a package; 12 lb pail \$1.75.

Pratt's Poultry Food. An egg producer that cannot be beat; also keeps your chickens healthy. 25c and 60c a package.

International Poultry Food. This well known poultry food gives fine satisfaction. An old standby that has many friends. 25c and 50c a package.

Germozone. Cures roup, cholera, canker, etc. 50c a package.

L i c e K i l l e r s

Prussian Lice Powder. Lousy hens don't lay or pay; Kill the lice and mites on your poultry with our lice powder. You dust it on. 25c and 50c a pkg.

Lee's Lice Killer. The best liquid on the market for killing lice, mites and other vermin on poultry. Quart 35c, ½ gallon 60c. 1 gallon \$1.

Carbolineum. The famous German wood preserver and insecticide. Paint or spray your chicken houses, hog pens, stables, sheds, etc., with carbolineum to permanently destroy all vermin and preserve your buildings from rot and decay. Quart 40c, ½ gallon 70c, 1 gallon \$1.25.

Insect Powder Gun. For use in applying insect powder on poultry, dogs or cats; each 10c.

M i s c e l l a n e o u s

Egg Testers, X-Ray. This tester is made to use on a lamp and will fit the ordinary No. 2 lamp. By holding the egg up to the opening in the side, the inside of the egg and the development of the chick can be seen. Each 40c; by mail 50c.

Harding's Perfection. For sunlight. Each 50c; by mail 60c.

Wire Hen's Nests. Strongly made; very durable; fastens to the wall. No harbor for vermin. Price each 25c, doz \$2.50.

Leg Bands. Easy to put on. Dozen 15c; 100, 85c.

Reliable Poultry Punch, 25c each.

Cypher's Poultry Punch, 50c each.

Sanitary Self Feeding Boxes. A fine way to feed bone grit and shells. 60c each,

Sanitary Stone Fountain. These are strong and well finished, made in two parts and are easily washed and kept clean. Half gal 35c; gal 50c.

Galvanized Fountains. Made of heavy galvanized iron, will last a long time. Small size 30c; medium 40c; large 50c.

Nest Eggs. Two for 5c; doz, 25c.

Wall Fountain. Keeps the water clean. Fine for ducks. Each 50c.

Folding Egg Boxes. The best way to ship eggs. 15 egg size 15c each; 30 egg size 25c each; 50 egg size 40c each.

Wire Covered Feeding Trough. Very convenient for young chickens. Price 35c; by mail 50c.

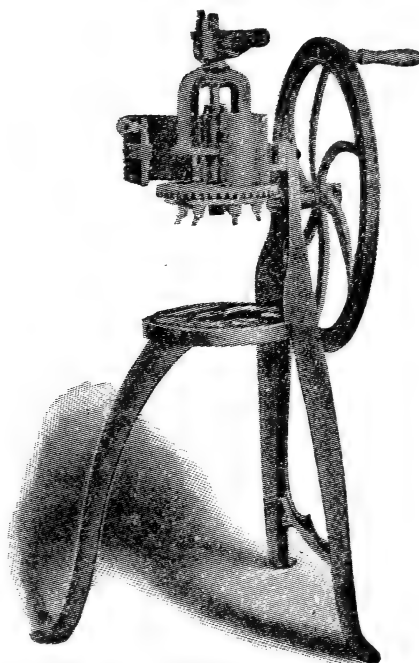
If You Don't Find What You Want in this Catalogue; Write and Ask Us.

Mann's Green Bone Cutters

**Still in
the Lead**

Other makes come and go, but
the Mann retains its place

If you want a new machine---one
that has every late improvement;
one that is really "ahead of the
times---" buy a Mann's. It does
the work with the greatest ease. It
makes every hen a paying hen.
Try it and see.



Mann's No. 7

Western Price List of Mann Bone Cutters

New Styles	Price	Weight
No. 5 C (with crank handle).....	\$ 7.75	30 lbs
No. 5 B (with balance wheel).....	10.00	55 lbs
No. 5 B (M. B. W. and iron stand).....	13.00	80 lbs
No. 7 (B. W. and iron stand).....	15.00	107 lbs

Incubator Supplies

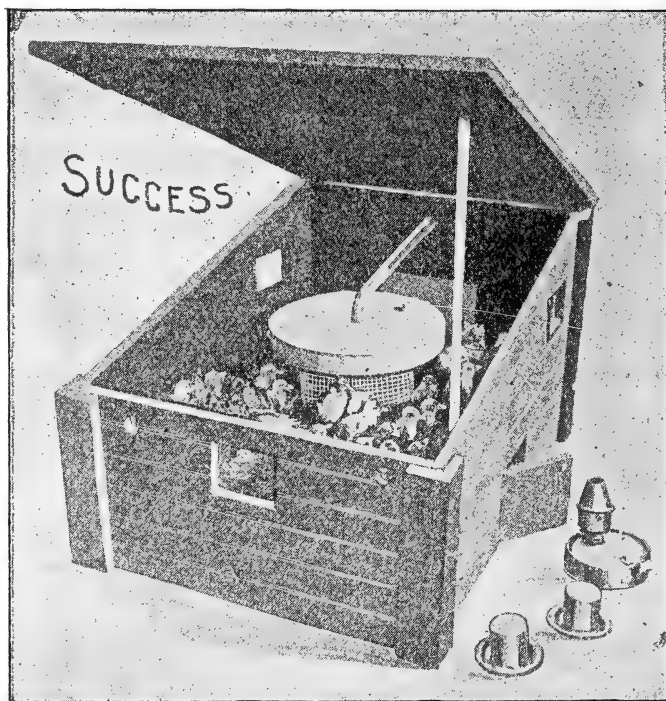
Best grade Oil, 5 gal. can.....	\$1.40
No. 2 Lamp, each.....	\$1.25
No. 3 Lamp, each.....	1.50
Lamp wicks, per dozen.....	.20
Wafer Regulator, each.....	.75
Tested Thermometers for Incubators, each.....	.75
Brooder Thermometers, each.....	.35
Burner only.....	.50
Burner only.....	.60

“McClanahan” Outdoor Brooder

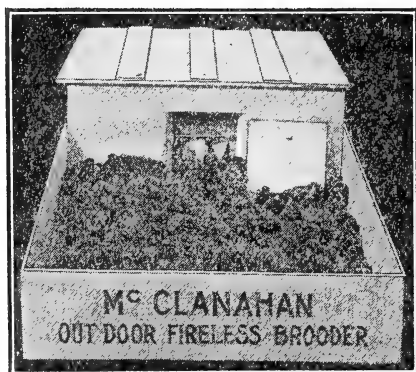
Largest
150-Chick
Size Brooder
Made.



150-Chick
Size, \$10.00.
We pay the
Freight.



Fireless Brooders



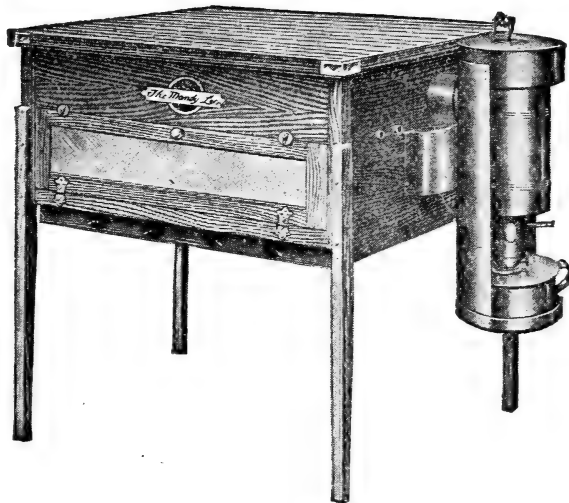
The accompanying illustration shows the outdoor style of the fireless brooder, which is the one most generally used. The indoor brooder has single walls and no storm roof. Otherwise it is the same as the outdoor type. If you can use the brooder in any sort of a good shed, barn or other protection, this style will answer every purpose. Made in one size, 150-Chick. We pay the freight. Price \$4.50.

Outdoor Fireless Brooder, made in one size only, 150-chick, \$6.00

Mandy Lee Incubators

There is a great difference of opinion as to the merits of hot air and hot water incubators. This season we are handling the best of the two kinds.

In the Mandy Lee we have an incubator that gives fine satisfaction in every way. It hatches the eggs and produces fine, strong chicks. In the test at the Oregon State Fair last fall one of the Mandy Lee incubators was set in Portland, hauled to the express office there, shipped here and then hauled to the poultry building, and after all that shaking around, hatched over 90 per cent of the fertile eggs. It will pay you to send for the large descriptive catalogue if interested.



Prices—100-Egg Size . . \$16.00	140-Egg Size, . . \$22.00
280-Egg Size . . \$34.00	

We also sell Lee Brooders; prices and catalogue on request.

Latest Model of the Famous McClanahan Incubator



100 (120) egg McClanahan Incubator, price \$14.00

150 (180) egg McClanahan Incubator, price 17.00

200 (240) egg McClanahan Incubator, price 21.00

At the above prices we pay the freight to any place in the U. S.

This is an incubator that is good and has made good in every way. We haven't the space to fully describe them here but if you are thinking of getting an incubator, send for the large catalogue. Sold under positive guarantee to do the work or money back.



SPRAY MATERIALS



We carry the largest stock of the best and most reliable sprays in the city, and you will find that the prices are the lowest that can be made on first-class goods. You do not want to use anything but first-class spray material, as it is money thrown away to use poor stuff.

Sulphur and Lime Solution Spray

We handle the Dependable brand of spray and can recommend it very highly. We sold it last season and it gave the very best of satisfaction to all. As it is made at home the price is far less than for spray that is shipped in and the quality is as good as any. For winter spraying use one part to ten parts of water. Our price is as low as it can be sold and maintain the quality. Special prices in large lots.

Prices: One gal in bulk, 25c, with can 30c; 5 gal in bulk, \$1, with can, \$1.20; per barrel, \$8.50, with allowance of \$1 for return of barrel in good shape.

Black Leaf Tobacco Extract. Diluted one part to sixty of water, a good remedy for plant lice. Gal, \$1.35.

Arsenate of Lead.

The Great Summer Spray. Arsenate of lead is the great spray for codling moth, the canker worm, caterpillars, grape insects, rose bugs, etc. It is the specific remedy against all leaf-eating insects. Arsenate of lead is a most concentrated form of arsenical poison, put up in the shape of a heavy, dense, white paste, which mixes well with water, although it is not soluble. Its complete insolubility makes it perfectly safe to apply at any strength without burning the foliage. In this and its great adhesive qualities lies its superiority to Paris Green and other insecticides. It is mixed with water at the rate of two or more pounds to 50 gallons, and applied as a spray. Full directions on each package.

Arsenate of lead is put up in cans and kegs, tightly sealed, in the following sizes and prices, subject to market changes: 1-lb can, 25c; 2-lb can, 50c; 5-lb can, \$1; 10-lb can, \$1.80; 20-lb can, \$3.50; 25-lb can, \$4.25; 100-lb keg, \$15.

Sulphur

For those who desire to make their own spray, we carry a good grade of sulphur. Prices: Pound, 5c; 10-lb lots at 3c a pound; 100 lbs, \$2, subject to changes.

Lime

We carry a good grade of lime for spraying purposes, at market prices.

Bluestone

The best grade for spraying, at the market price. Pound, 10c.

Blue Label Slug Destroyer

This is the first powder of its kind that we have ever found to kill slugs and keep them away from young plants. Put up in 25c and 50c pkgs.

Grafting Wax

Quarter-pound, 10c; half-pound, 20c; one pound, 35c. Postage, 18c per pound extra.

Beeswax, pound, 50c.

Rosin, pound, 10c; 4 lbs, 25c.

Sprayers

Leader. A splendid little bucket spray pump; made of seamless drawn

brass tubing and strongly built in every respect. Three feet of good hose with each pump, and extra nozzles. Price \$2.50 each.

Faultless Sprayer. Tin; one of the most convenient small sprayers for using liquid lice killers, fly remedies, etc. Price 50c each; brass, 90c each.

Myer's Bucket Pump. This is a very handy pump, using a handle instead of plunger. Can be used as a barrel pump. Price, \$4.

New Banner Compressed Air Sprayer. Holds four gallons, is made with double flanged heads to stand heavy pressure, is 7 inches in diameter by 21 inches in height. The pump is made of heavy brass and screwed in with heavy machine-cut threads. The Banner is provided with a safety valve to prevent over-pressure. The automatic lever nozzle is made of solid brass, is the latest improvement in nozzles, and will throw a stream of fine spray with no waste. A few strokes of the pump produce sufficient pressure to spray out the contents. There are no complicated parts. We have tried all the compressed sprayers to date, and recommend the Banner as the newest and best, most durable and efficient. Price: galv. iron \$5.50; solid brass \$7; 3 foot brass extension rods extra, each 60c.

Barrels and Kegs

We carry a complete stock, suitable for meat, fish, cider, vinegar, kraut, etc.

5-gallon keg.....	\$.65	10-gallon keg.....	\$1.00
15-gallon keg.....	1.25	20-gallon keg.....	1.40
30-gallon barrel	1.60	50-gallon barrel	2.30

Traps

Reddick Mole Traps. The best trap for catching moles, on the market. Each 75c.

Gopher Guns

We have a safe and improved gun. Simple and easy to handle. Each \$1.75.

Corn Planters

Crescent. A two-handled planter, strong and durable. Price \$1.

Rotary. Very accurate in planting. Price \$1.50.

"Black Leaf" Sheep Dip

Has much the best standing and by far the largest sale of any proprietary dip on the United States market. The "Black Leaf" Dip contains more Nicotine, Oils and Gums of Tobacco than that of any competing preparations on the market. It is therefore bound to produce better results. In addition, it is economical and harmless to sheep and wool. It is exactly the dip you want. Send for 16-page description booklet containing valuable information on sheep dip and mode of dipping. Per gal \$1.35, 5-gal can \$5.50.

Squirrel Poison

We handle a reliable brand of squirrel poison that does the work. 25c a can.



Stock Foods, Tonics and Remedies



Prussian Stock Tonic. This is one of the best condition powders and tonics that we have ever handled. It gives fine results for all kinds of stock. Pkgs 25c, 50c and \$1. 12 lb pail \$1.75, 25 lb pail \$3.50.

Prussian Heave Cure. This is a certain and sure cure for heaves if taken in time. If the horse is so far gone that it will not cure him, it will improve and make him a great deal better. Pkgs 50c.

Prussian Cough and Distemper Cure. This is a sure cure for Distemper. Pkgs 50c.

Prussian Worm Powders. Always cures. Pkg 50c.

Prussian Calf Tonic. A scientific preparation for young stock. Takes the place of cow's milk. We have sold it for several years and it gives fine results. Pkg 50c, 12 lb pail \$1.75.

Prussian Spavin Cure. A good remedy. Price \$1 per bottle.

Prussian Barbed Wire Liniment. For cuts, wounds, etc. 50c a bottle.

Prussian Healing Oil For wounds, cuts, abrasions and other hurts on man or beast. 50c per bottle.

Prussian Gall Cure. Work the horse while it cures. 25 and 50c a pkg.

International Stock Food. One of the best on the market and an old standby. 25c, 50c and \$1 pkgs. 25 lb pail \$3.50.

International Worm Powders. A sure cure for worms in stock. 50c a pkg.

International Heave Cure. One of the best heave cures on the market. 50c a pkg.

Kow Kure. This is the best cow remedy we have ever sold. It gives fine results and every one with a cow ought to keep and feed it at all times. 50c and \$1 pkgs.

Garget Cure. Said to be a sure cure for the garget. 50c a pkg.

Bag Balm. This is a fine remedy and cure for sore and chapped bags. 50c a can.



FLY SPRAYS



So-Boss-So. This is one of the best things that we have ever sold. It keeps them off. Quart 35c, gallon \$1.25.

Gold Coin. We first introduced this the past season and it gave the very best of results. One of the best fly sprays we have handled. Qt 35c, ½ gal 50c, 1 gal \$1.



FERTILIZERS



Our stock of fertilizers is manufactured by one of the best and most reliable firms, and will run true to analysis. Special prices on quantity lots.

Standard Fertilizer. Carefully prepared to replace all plant foods removed from the soil by general crops. Price, 25 lbs 50c, 50 lbs 90c, 100 lbs \$1.60, ton \$28.

No. 1, General Fertilizer. An all around fertilizer, better than Standard, which can be used on any crop, but is especially adapted for grain and general farm crops. Price, 100 lbs \$2, ton \$37.

No. 4, Fruit. For all kinds of fruit, especially strawberries, blackberries, raspberries, etc. 100 lbs \$2.25, ton \$40.

No. 5, Lawn Dressing. The finest lawn fertilizer that you can get. 100 lbs to the city lot. No weeds, all fertilizer. 10 lbs 50c, 25 lbs 85c, 50 lbs \$1.35, 100 lbs \$2.35.

Nitrate of Soda. For immediate results Nitrate of Soda is the very best for stimulating and forcing the growth of plants and other crops. Lb 5c, 100 lbs \$3.25.

Superphosphate. This is a concentrated form of phosphoric acid, and is the cheapest way to buy it. Lb 5c, 100 lbs \$1.75.

Ground Bone. Pure bone, finely ground, is one of the best fertilizers. 10 lbs 25c 100 lbs \$2.

Muriate of Potash. One of the most important fertilizers elements. Lb 5c, 100 lbs \$3.35. 224 lb sack \$6.50,

Utah Land Plaster. Made from pure gypsum, free from clay or other foreign matter, Fine for clover, vetch, etc. 100 lbs 80c, ton \$15.

Oregon Land Plaster. This is a cheaper grade than the Utah and is not ground as good, neither does it test so high. It gives very good results. 100 lbs 70c, ton \$13.

Send for special books on fertilizers.

LIGHTNING DANDELION EXTERMINATOR



The only Quick, Sure and Easy way to rid your lawn of Dandelions and keep it free.

A Polished Brass Tube four feet long, filled with gasoline. Attached to the lower end is an ingeniously devised knife for cutting the root just below the surface, and a nozzle for depositing a few drops of gasoline directly on the root, which kills it quickly with one operation.

Easy and Rapid to Operate. Anyone can use it. 20 to 30 plants per minute can be treated. Does not injure the grass. Also used for destroying grass and weeds in brick walks. The only practical, simple and durable tool ever made that exterminates weeds in lawns absolutely so that they never grow again. Price \$2.50.

TESTED BULK SEEDS

Remember that we handle only tested bulk seeds, no old package seeds to work off that have laid on the shelf for years.

In buying package seeds you never know how old the seeds are, as the dealers send them out year after year, until sold.

Buy our Tested Seeds in Bulk and Insure your Crop

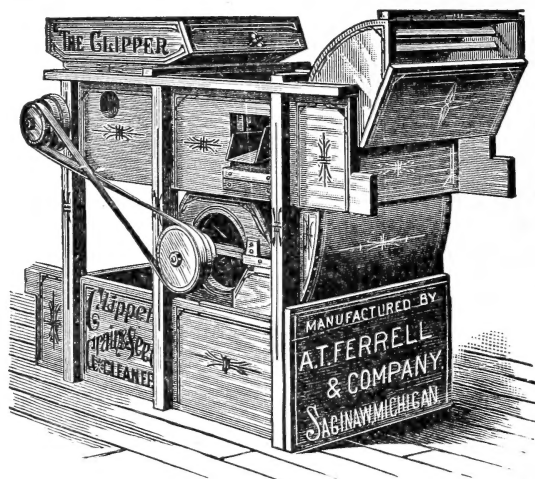
Weight of Various Articles Per Bushel

	Lbs.		Lbs.		Lbs.
Barley	48	Grass Seed (unless	Lbs.	Peas, wrinkled	56
Beans	60	otherwise stated)	14	Perennial Rye	20
Buckwheat	48	Hemp Seed	14	Potatoes	60
Blue Grass—		Hungarian	48	Rape	60
Kentucky	14	Lawn Grass	20	Rye	56
English	24	Meadow Fescue	24	Red Top	14
Canary Seed	60	Millet	50	Red Top, solid seed	42
Cheat	34	Oats	32	Speltz	40
Clover Seed	60	Onion Sets	32	Timothy	45
Corn, shelled	56	Orchard Grass	14	Vetches	70
Charcoal	22	Peach Pits	48	Wheat	60
Flax Seed	56	Peas, smooth	60		

Quantity of Seed to Produce a Given Number of Plants and Sow an Acre.

	Per Acre.		Per Acre.
Artichoke, 1 oz to 500 plants	6 oz	Horseradish roots	10,000 to 15,000
Asparagus, 1 oz to 800 plants	1 lb	Kale, 1 oz to 2000 plants	4 oz
Asparagus roots	5000 to 10,000	Kaffir corn, in drills	6 to 8 lb
Barley	2 to 2½ bu	Kohl Rabi, 1 oz to 2000 plants	4 oz
Beans, dwarf, 1 lb to 100 ft of drill	1 bu	Leek, 1 oz to 100 ft of drill	4 lb
pole, 1 lb to 100 hills	½ bu	Lettuce, 1 oz to 150 ft of drill	3 lb
Beet, garden, 1 oz to 190 ft of drill	7 lb	Millet—for seed	20 lb
mangel 1 oz to 75 ft of drill	5 lb	hay	30 lb
Broccoli, 1 oz to 2000 plants	4 oz	Melon—Musk, 2 oz to 100 hills	2 to 3 lb
Brussels sprouts 1 oz to 2000 plants	4 oz	Water, 4 oz to 100 hills	3 to 4 lb
Broom corn in drills	15 lb	Oats	2 to 3 bu
Buckwheat	½ to 1 bu	Okra, 1 oz to 100 ft of drill	8 lb
Cabbage 1 oz to 2000 plants	4 oz	Onion seed, for sets	60 to 85 lb
Carrot ½ oz to 100 ft of drill	3 lb	1 oz to 150 ft drill	3 to 4 lb
Cauliflower 1 oz to 3000 plants	3 oz	Onion sets, 1 qt to 40 ft drill	8 bu
Celery 1 oz to 5000 plants	4 oz	Parsnips, 1 oz to 150 ft drill	3 lb
Cheat	2 bu	Parsley, 1 oz to 150 ft drill	3 lb
Chicory	4 lb	Peas, field	2 bu
Clover, alsike and white,	8 to 10 lb	garden, 1 lb to 100 ft drill	1 to 2 bu
Alfalfa	15 to 20 lb	Pepper	1 oz to 1000 plants
Crimson Trefoil	10 to 15 lb	Pumpkin, ½ lb to 100 hills	3 to 4 lb
Red	10 to 12 lb	Radish, 1 oz to 100 ft drill	10 lb
Collards 1 oz to 2000 plants	4 oz	Rape	3 to 5 lb
Corn, pop (shelled)	8 to 10 lb	Rye	1½ to 2 bu
Sweet or field, hills	12 to 20 lb	Salsify, 1 oz to 100 ft drill	6 lb
For soiling, drills	2 bu	Speltz	100 lb
Cress, ¾ oz to 100 ft drill	1 lb	Spinach, 1 oz to 100 ft drill	8 lb
Cucumbers, 1 oz to 100 ft hills	2 to 3 lb	Sugar cane, in drills	10 lb
Egg plant 1 oz to 2000 plants	4 oz	Sunflower	8 lb
Endive ¼ oz to 100 ft drill	4 lb	Squash, summer, 4 oz to 100 hills	3 lb
Flax, broadcast	¾ bu	winter, 8 oz to 100 hills	4 lb
Grass—blue, Kentucky	2 bu	Tomato, 1 oz to 2000 plants	4 oz
Meadow Fescue	1 bu	Tobacco, 1 oz to 4000 plants	3 oz
Mixed Lawn	5 to 6 bu	Turnip, 1 oz to 150 ft of drill	2 to 3 lb
Red Top, chaff	2 bu	Vetches	1½ to 2 bu
Red Top, solid seed	12 to 15 lb	With grain	1 bu
Timothy	12 to 15 lb	Wheat	1½ to 2 bu
Orchard Perennial Rye, Fowl			
Meadow, Wood Meadow	2 bu		

"Clipper" Grain and Seed Cleaner



We have recently added a large power cleaner and are now prepared to clean all kinds of seed grain, clover seeds, grass seeds, vetch seed, etc.

We can clean far better than with a hand cleaner as the fan runs more even and we can better regulate the wind blast.

Our machine is equipped with air controller, traveling brushes, and a full assortment of screens and does fine work.

Do not sow foul seeds but reclean your grain and all seeds and have your land produce a good crop instead of a lot of foul weeds. Our charges are reasonable and we guarantee our work.

We are also local agents for this well-known cleaner and will be glad to show you what they will do at any time.

The prices of the smaller sizes are as follows: **No. 1 \$28;**
No. 2 \$37.50.

Descriptive catalogue on request.